IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A system for making quality measurements in a network having a plurality of routers for routing traffic through the network, the system comprising:

~~a plurality of routers for routing traffic through the network;~~

means for taking measurements on each path of all paths within the network, wherein ~~said~~ the each path is between a pair of routers from ~~said~~ the plurality of routers; and

means for charging a single degradation against ~~at least one~~ a particular router of the plurality of routers within a path when data related to the measurements falls below a target value even though the particular router is responsible for multiple path failures and tracking a number of degradations for each one of ~~said~~ the plurality of routers in ~~said~~ the network over a period of time.

2.   (Currently Amended) The system of claim 1, wherein the network is a ~~Voice-over-Internet Protocol (VoIP)~~ voice over internet protocol network.

3.   (Original) The system of claim 1, wherein the data related to the measurements is an R-Factor.

4.   (Original) The system of claim 1, further comprising a manual mechanism for entering information into a matrix.

5.   (Previously Presented) The system of claim 4, wherein the information comprises at least one of:

an indication of a site where a problem occurs;

an indication of a nature of the problem;

a start time indicating when the data related to the measurements falls below the target value;

an end time indicating when the data related to the measurements rises above the target value; and

an identifier of an individual that reports the problem.

6.   (Original) The system of claim 4, wherein the matrix includes a matrix of source routers and destination routers.

7.   (Currently Amended) The system of claim 6, wherein the matrix includes set events and clear events for at least one of the source routers and at least one of the destination routers.

8.   (Currently Amended) A method of making quality measurements in a network, the method comprising:

monitoring an R-Factor for each path of all paths within said the network, wherein said the each path is between a pair of routers;

tracking at least one a path that exhibits said the R-Factor below a target value;

tracking a start time indicating when the R-Factor of a particular path of said at least one the path falls below the target value;

tracking an end time indicating when the R-Factor of the particular path rises above the target value;

determining if an overlap exists between the start time and the end time for multiple paths connecting to a particular router;

charging the particular router connected to the multiple paths with one degradation if the overlap exists;

charging the particular router with each degradation connected to the multiple paths if the overlap does not exist; and

tracking a number of degradations for each router of all routers in said the network over a period of time.

9.   (Original) The method of claim 8, wherein the target value is 70.

10.   (Previously Presented) The method of claim 8, further comprising entering the start time as a set event in a matrix.

11.   (Previously Presented) The method of claim 8, further comprising entering the end time as a clear event in a matrix.

12.   (Currently Amended) A server for making quality measurements in a network, the server comprising:

     means for taking measurements on each path of all paths within ~~said~~ the network, wherein ~~said~~ the each path is between a pair of routers from a plurality of routers; and

     means for charging a single degradation against ~~at least one~~ a particular router of the plurality of routers within a path when data related to the measurements falls below a target value even though the particular router is responsible for multiple path failures and tracking a number of degradations for each one of ~~said~~ the plurality of routers in ~~said~~ the network over a period of time.

13.   (Currently Amended) The server of claim 12, wherein the network is a ~~Voice-over-Internet Protocol (VoIP)~~ voice over internet protocol network.

14.   (Original) The server of claim 12, wherein the data related to the measurements is an R-Factor.

15.   (Original) The server of claim 12, further comprising a manual mechanism for entering information into a matrix.

16.   (Original) The server of claim 15, wherein the information comprises at least one of:

an indication of a site where a problem occurs;

a start time indicating when the data related to the measurements falls below the target value;

an end time indicating when the data related to the measurements rises above the target value; and

an identifier of an individual that reports the problem.

17.   (Previously Presented) The server of claim 15, where the information further comprises an indication of a nature of the problem.

18.   (Original) The server of claim 15, wherein the matrix includes a matrix of source routers and destination routers.

19.   (Currently Amended) The server of claim 18, wherein the matrix includes set events and clear events for at least one of the source routers and at least one of the destination routers.